

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Charles S. Fish (Reg No. 35,870) on 08/18/2010.

Please Amend the Claims as Follows:

1. (Currently Amended) A method of processing requests to access computing resources of a local computer system, comprising:

restricting, without totally suspending, processing of resource acquisition requests when a number of resources in use in the local computer system is within a first predetermined amount of a maximum number of available resources;

wherein the resource acquisition requests include local resource acquisition requests generated by at least one local filesystem of the local computer system for access to local storage and network resource acquisition requests generated by at least one network filesystem of the local computer system for access to remote data via a network, wherein each network filesystem has a soft limit of the resources used for executing the network resource acquisition requests;

wherein the maximum number of available resources represents the available resources for the network resource acquisition requests and in addition, a local reserved number of the resources are available for the local resource acquisition requests;

wherein restricting processing of resource acquisition requests applies only to the network resource acquisition requests performing asynchronous writes and not the local resource acquisition requests, and wherein said restricting applies an enforcement limit, smaller than the maximum number of available resources by the first predetermined amount, to the network resource acquisition requests;

wherein said restricting further comprises holding a first network resource acquisition request in a first filesystem queue if execution of the first network resource acquisition request would cause the enforcement limit to be exceeded and the soft limit for a first network filesystem that generated the first network resource acquisition request has been exceeded.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) A method as recited in claim [[4]] 1, wherein said holding of the first resource acquisition request and any subsequently received resource

acquisition requests for the first network filesystem is continued until at least one of: the executing resource acquisition requests for the first network filesystem are below the soft limit, and the first resource acquisition request has been held on the first filesystem queue longer than a predetermined time period.

14. (Currently Amended) At least one non-transitory computer storage readable medium storing at least one program embodying a method of processing requests to access computing resources of a local computer system, said method comprising:

restricting, without totally suspending, processing of resource acquisition requests when a number of resources in use in the local computer system is within a first predetermined amount of a maximum number of available resources;

wherein the resource acquisition requests include local resource acquisition requests generated by at least one local filesystem of the local computer system for access to local storage and network resource acquisition requests generated by at least one network filesystem of the local computer system for access to remote data via a network, wherein each network filesystem has a soft limit of the resources used for executing the network resource acquisition requests;

wherein the maximum number of available resources represents the available resources for the network resource acquisition requests and in addition, a local reserved number of the resources are available for the local resource acquisition requests;

wherein restricting processing of resource acquisition requests applies only to network resource acquisition requests performing asynchronous writes and not local

resource acquisition requests, wherein said restricting applies an enforcement limit, smaller than the maximum number of available resources by the first predetermined amount, to the network resource acquisition requests;

wherein said restricting further comprises holding a first network resource acquisition request in a first filesystem queue if execution of the first network resource acquisition request would cause the enforcement limit to be exceeded and the soft limit for a first network filesystem that generated the first network resource acquisition request has been exceeded.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 47 14, wherein said holding of the first resource acquisition request and any subsequently received resource acquisition requests for the first network filesystem is continued until at least one of: the executing resource acquisition requests for the first network filesystem are below the soft limit, and the first resource acquisition request has been held on the first filesystem queue longer than a predetermined time period.

19. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 18, wherein said method further comprises, upon completion of execution of each of the resource acquisition requests, Initiating execution of a longest held resource acquisition request in a corresponding network filesystem queue corresponding to the soft limit if the corresponding network filesystem queue is not empty.

20. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 19, further comprising flushing the network resource acquisition requests related to a new network resource acquisition request if the maximum number of available resources are in use when the new network resource acquisition request is received.

21. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 20, further comprising holding the new network resource acquisition request and any subsequently received network resource acquisition requests in a global wait queue until the number of resources in use is less than the maximum number of available resources.

22. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 21, further comprising, upon completion of execution of each

of the resource acquisition requests, releasing the new and any subsequently received network resource acquisition requests in the global wait queue, if the number of resources in use is less than the maximum number of available resources by at least a second predetermined amount.

23. (Currently Amended) At least one non-transitory computer storage readable medium as recited in claim 22, wherein at least one of the maximum number of available resources, the enforcement limit, the soft limit and the first and second predetermined amounts are configurable by a user.

24. (Currently Amended) A client node, having a limited number of resources, in a network of a plurality of computer system nodes, comprising:

at least one local disk with local filesystems;

at least one network filesystem;

a communication link ~~for~~ coupled to the at least one network filesystem to ~~obtain~~ data-accessed access data under control of another node of the computer system nodes; and

at least one processor programmed to restrict processing of resource acquisition requests ~~generated by at least one filesystem~~ when a number of resources in use at the client node is within a first predetermined amount of a maximum number of available resources;

wherein the resource acquisition requests include local resource acquisition requests generated by the at least one local filesystem for access to the local storage and network resource acquisition requests generated by the at least one network filesystem for access to remote data via ~~a~~ the communication link;

wherein restricting processing of resource acquisition requests applies to the network resource acquisition requests and not the local resource acquisition requests, and wherein the restricting processing of resource acquisition requests includes:

detecting that an enforcement limit has been reached as a result of a new network acquisition request, the enforcement limit being smaller than the maximum number of available resources by the first predetermined amount; and

placing the new network resource acquisition request in an execution queue associated with the at least one network filesystem when the enforcement limit has been reached and at least a second predetermined number of the resource acquisition requests associated with the network filesystem are being processed.

25. (Cancelled)

-- END OF AMENDMENT --

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC C. WAI whose telephone number is (571)270-1012. The examiner can normally be reached on Mon-Fri, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng - Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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